



Submittal Data

GHS Series Hydraulic Separator -- Up to 90 U.S. GPM per Side



Project Name:

Contractor:

Engineer:

Order Number:

Additional Information:

Technical Data

Application: The Geo-Flo Hydraulic Separator (GHS) creates a low pressure loss zone, where two independent primary and secondary circuits may be connected. The flow in one circuit does not affect the flow in the other circuit. The pressure drop of the ground loop (primary circuit) may be considered separately from the pressure drop of the inside piping and heat pump heat exchangers (secondary circuit) for smaller pump sizing. Additional benefits of a Hydraulic Separator include air and dirt separation. The low pressure loss zone (less than 2 fps) causes any dirt/debris to fall to the bottom of the tank, where it can be drained at the blow-down valve. Likewise, any air that may still be in the system collects at the top of the tank, where it can be eliminated via the automatic air vent.

Cabinet: Power coated steel

Insulation: CFC-free, polyurethane foam

Tank: High density polyethylene

Automatic Air Vent: Brass body and cover, air vent with silicone rubber seal, polyethylene temperature resistant float. Can be disassembled for inspection and cleaning.

Ball Valves: (3) 1/2" FPT full port brass, one for connection to expansion tank, one for connection to automatic air vent, and one for use as a blow-down valve.

Piping Connections:

Piping Connections			
Model	Left Connections	Right Connections	Max. Flow Rate
GHS-06-2F2F	2" Flange*	2" Flange*	40 U.S. GPM**
GHS-06-2F2N		2" NPT female	
GHS-06-2F2P		2" HDPE pipe	
GHS-06-2N2F	2" NPT female	2" Flange*	
GHS-06-2N2N		2" NPT female	
GHS-06-2N2P		2" HDPE pipe	
GHS-06-2P2F	2" HDPE pipe	2" Flange*	
GHS-06-2P2N		2" NPT female	
GHS-06-2P2P		2" HDPE pipe	
GHS-06-3F3F	3" Flange*	3" Flange*	90 U.S. GPM**

*All flange connections are ANSI standard 150 psi flanges. NOTE: Gaskets and hardware for flanges are not included.

**Flow rate on each side of hydraulic separator, not combined flow.

Max. Fluid Temperature: 140°F [60°C]
 Min. Fluid Temperature: 20°F [-7°C]
 Max. Oper. Press.: 100 psi [689 kPa]
 at 100°F [38°C]
 Max. Flow Rate: 90 U.S. GPM [5.7 l/s]

Approved Antifreeze

Propylene Glycol
 Ethanol
 Methanol

Mounting

Hydraulic separator is designed for indoor installation only.

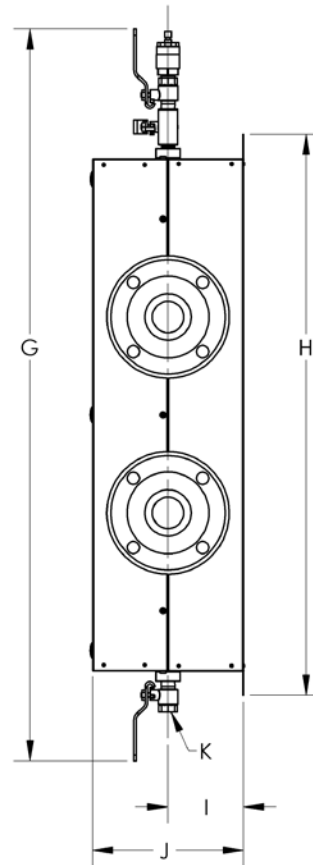
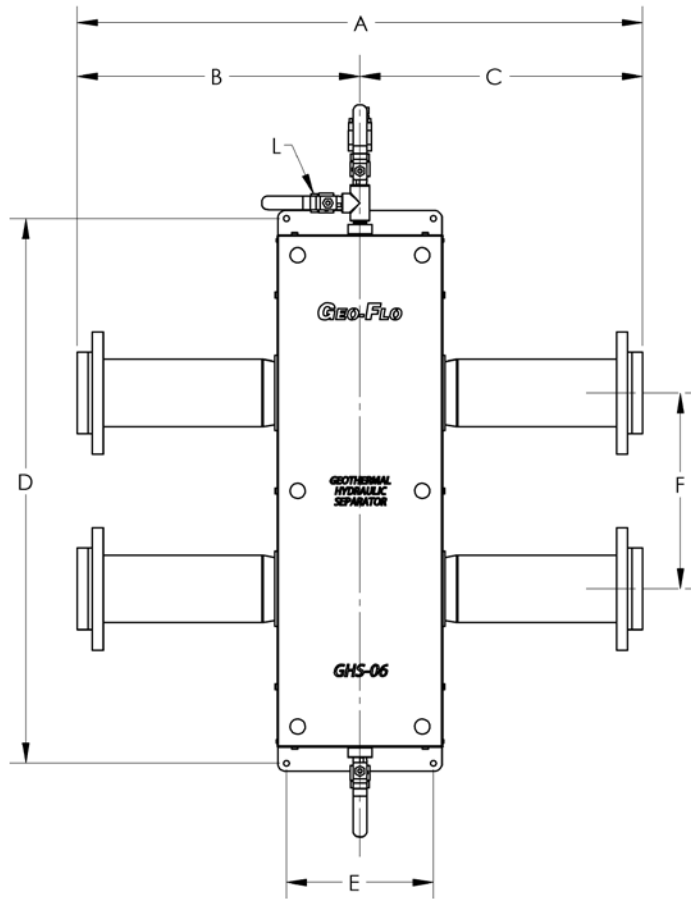
Mounting holes are located on the top and bottom of the cabinet. See dimensional data for locations.

All piping connected to the hydraulic separator must be supported to avoid excessive stress on piping connections.



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Dimensions



MODEL	A	B	C	WEIGHT
GHS-06-2F2F	20-3/8" (51.8 cm)	10-3/16" (25.9 cm)	10-3/16" (25.9 cm)	41.6 lbs (18.9 kg)
GHS-06-2F2N	22-1/8" (56.2 cm)	10-3/16" (25.9 cm)	11-15/16" (30.3 cm)	38.2 lbs (17.3 kg)
GHS-06-2F2P	20-1/8" (51.1 cm)	10-3/16" (25.9 cm)	9-15/16" (25.2 cm)	36.6 lbs (16.6 kg)
GHS-06-2N2F	22-1/8" (56.2 cm)	11-15/16" (30.3 cm)	10-3/16" (25.9 cm)	38.2 lbs (17.3 kg)
GHS-06-2N2N	23-7/8" (60.6 cm)	11-15/16" (30.3 cm)	11-15/16" (30.3 cm)	34.8 lbs (15.8 kg)
GHS-06-2N2P	21-7/8" (55.6 cm)	11-15/16" (30.3 cm)	9-15/16" (25.2 cm)	33.2 lbs (15.1 kg)
GHS-06-2P2F	20-1/8" (51.1 cm)	9-15/16" (25.2 cm)	10-3/16" (25.9 cm)	36.6 lbs (16.6 kg)
GHS-06-2P2N	21-7/8" (55.6 cm)	9-15/16" (25.2 cm)	11-15/16" (30.3 cm)	33.2 lbs (15.1 kg)
GHS-06-2P2P	19-7/8" (50.5 cm)	9-15/16" (25.2 cm)	9-15/16" (25.2 cm)	31.7 lbs (14.4 kg)
GHS-06-3F3F	33-3/4" (85.7 cm)	16-7/8" (42.9 cm)	16-7/8" (42.9 cm)	52.9 lbs (24 kg)

ALL MODELS	
D	33-3/8" (84.8 cm)
E	9" (22.9 cm)
F	12" (30.5 cm)
G	44-7/8" (114.0 cm)
H	34-3/8" (87.3 cm)
I	4-5/8" (11.8 cm)
J	9-1/4" (23.5 cm)
K	1/2" FPT
L	

NOTE: Dimensions A, B, and C are approximate due to fluctuation in flange and HDPE connections, and should not be used for detailed layouts.

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